

Attorney Docket No. 05679/LH

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**IN THE UNITED STATES PATENT  
AND TRADEMARK OFFICE**

Date of Deposit: October 14, 2005

Applicant(s): Y. NAGASHIMA et al

Serial No. : National Phase of  
PCT/JP2005/004556

Filed : Herewith

For : SEMICONDUCTOR LASER  
CAPABLE OF COUPLING  
WITH SINGLE-MODE  
OPTICAL FIBER AT HIGH  
COUPLING EFFICIENCY

Art Unit :  
Examiner :

I hereby certify that this paper is  
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N. Sahadeo  
Nalini P. Sahadeo

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**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450,  
Alexandria, VA 22313-1450

S I R :

Submitted herewith are copies of the publications (except  
U.S. publications) identified on the attached Patent Office form  
PTO/SB/08A . Also enclosed is an International Search Report.

Japanese No. 9-61652 is identified on page 3 of the  
specification.

U.S. patent application Serial No. 10/692,125 (published as  
US 2004/0089866) is identified on page 4 of the specification.  
US 2004/0089866 is listed on the attached PTO/SB/08A.

European Application No. 03 025 058.3 (published as EP 1 416  
598) is identified on page 4 of the specification. A copy of EP  
1 416 598 is enclosed herewith. JP 2004-153212 (listed on the  
attached International Search Report) is a family member of  
EP 1 416 598 and US 2004/09866 A1.

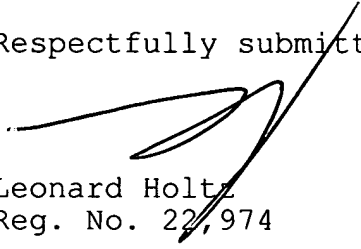
10/553161

JC20 Rec'd PCT/PTO 14 OCT 2005

USP 6,333,945, USP 6,606,334 and US 2002/041613 are family members of JP 11-243259, JP 2001-210910 and JP 2002-368341, respectively.

It is respectfully requested that the publications submitted herewith be considered and made of record.

Respectfully submitted,

  
Leonard Holtz  
Reg. No. 22,974

Frishauf, Holtz, Goodman & Chick, P.C.  
220 Fifth Avenue - 16th Floor  
New York, New York 10001-7708  
Tel. No. (212) 319-4900  
Fax No. (212) 319-5101  
LH:bv

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PTO/SB/08A (08-00)

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

|   |   |    |   |                        |  |           |  |
|---|---|----|---|------------------------|--|-----------|--|
| Substitute for Form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> |   |    |   | Application Number     |  | 10/553161 |  |
|   |   |    |   | Filing Date            |  | Herewith  |  |
|   |   |    |   | First Named Inventor   |  | NAGASHIMA |  |
|   |   |    |   | Group Art Unit         |  |           |  |
|   |   |    |   | Examiner Name          |  |           |  |
| Sheet   | 1 | of | 2 | Attorney Docket Number |  | 05679/LH  |  |

**U.S. PATENT DOCUMENTS**

| Exam.<br>Initials | Cite<br>No <sup>1</sup> | Document Number | Kind<br>Code <sup>2</sup> | Name of Patentee or<br>Applicant | Publication Date<br>MM-DD-YYYY | Relevant<br>Portion |
|-------------------|-------------------------|-----------------|---------------------------|----------------------------------|--------------------------------|---------------------|
|                   |                         | 6,333,945       | B1                        | ABE et al                        | 12-25-2001                     |                     |
|                   |                         | 2002/0041613    | A1                        | YOSHIDA et al                    | 04-11-2002                     |                     |
|                   |                         | 6,606,334       | B1                        | SHIGIHARA et al                  | 08-12-2003                     |                     |
|                   |                         | 2004/0089866    | A1                        | NAGASHIMA et al                  | 05-13-2004                     |                     |

**FOREIGN PATENT DOCUMENTS**

| Exam<br>Initials | Cite<br>No <sup>1</sup> | offc <sup>3</sup> | Document Number <sup>4</sup>   | Kind<br>Code <sup>5</sup> | Name of Patentee or<br>Applicant        | Publication<br>Date MM-DD-YYYY | Relevant<br>Portion | T <sup>6</sup> |
|------------------|-------------------------|-------------------|--------------------------------|---------------------------|---|--------------------------------|---------------------|----------------|
|                  |                         | EP                | 1 416 598                      | A2                        | NAGASHIMA ET AL                         | 05-06-2004                     |                     |                |
|                  |                         | JP                | 9-289354                       | A                         | MATSUSHITA ELECTRIC<br>IND. CO. LTD.    | 11-04-1997                     |                     |                |
|                  |                         | JP                | 8-234062                       | A                         | NIPPON TELEGRAPH<br>AND TELEPHONE CORP. | 09-13-1996                     |                     |                |
|                  |                         | JP                | 2004-153212                    | A                         | ANRITSU CORP.                           | 05-27-2004                     |                     |                |
|                  |                         | JP                | 11-243259                      | A                         | DENSO CORP.                             | 09-07-1999                     |                     |                |
|                  |                         | JP                | 2001-210910                    | A                         | MITSUBISHI ELECTRIC<br>COPR.            | 08-03-2001                     |                     |                |
|                  |                         | JP                | 2002-368341                    | A                         | THE FURUKAWA<br>ELECTRIC CO., LTD.      | 12-20-2002                     |                     |                |
|                  |                         | JP                | 9-61652                        | A                         | OKAMOTO et al                           | 03-07-1997                     |                     | x*             |
|                  |                         |                   | *includes English<br>abstract. |                           |   |                                |                     |                |

|                       |                    |
|-----------------------|--------------------|
| Examiner<br>Signature | Date<br>Considered |
|-----------------------|--------------------|

<sup>1</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup> Unique citation designation number. <sup>3</sup> See kinds of U.S. Patent Documents. <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \* Place a check here if English translation is attached.

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|   |                          |  |   |                        |                  |
|---|--------------------------|--|---|------------------------|------------------|
| Substitute for Form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> |                          |  |   | Application Number     | <b>10/553161</b> |
|   |                          |  |   | Filing Date            | HEREWITH         |
|   |                          |  |   | First Named Inventor   | NAGASHIMA        |
|   |                          |  |   | Group Art Unit         |                  |
|   |                          |  |   | Examiner Name          |                  |
| Sheet   | 2                        | of   | 2 | Attorney Docket Number | 05679/LH         |
| <b>OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS</b>                                      |                          |  |   |                        |                  |
| Examiner<br>Initials <sup>1</sup>   | Cite<br>No. <sup>1</sup> | Include name of author (in CAPITAL LETTERS), title of article, title of item, date, page(s), volume-issue number(s), publisher, city and/or country where published  |   |                        | T <sup>2</sup>   |
|   |                          | Y. NAGASHIMA et al; ASYMMETRIC-CLADDING 1480-nm PUMP LASER WITH CW FIBER OUTPUT POWER OF 1 W; Optical Amplifiers and Their Applications; TOPS (2) Vol. 92 147, 2003; pp. 4-8.<br><br>Y. NAGASHIMA et al; NOVEL ASYMMETRIC-CLADDING 1.48- $\mu$ m PUMP LASER WITH EXTREMELY HIGH SLOPE EFFICIENCY AND CW OUTPUT POWER OF >1 W; LEOS (1); 2002; pp. 2-3. |   |                        |                  |
| Examiner<br>Signature   |                          |  |   | Date<br>Considered     |                  |

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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